## In the Claims:



- 1. (Original) A polypeptide that modulates programmed cell death, comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3 and SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8.
  - 2. (Original) A composition comprising a polypeptide as of claim 1 and a pharmaceutically acceptable carrier thereof.
  - 3. (Original) The polypeptide according to claim 1, wherein the amino acid sequence is SEQ ID NO: 2 or SEQ ID NO: 8.
  - 4. (Original) An apoptotically active polypeptide having at least 60% amino acid identity over the complete amino acid sequence of SEQ ID NO: \(\frac{1}{2}\).
  - 5. (Original) The polypeptide according to claim 4, wherein the polypeptide has a sequence selected from the group consisting of SEQ ID NO: 2, SEQ ID NO: 3 and SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8.
  - 6. (Withdrawn for rejoining) A method for preventing or treating a disorder associated with a decrease in apoptosis, the method comprising:
    - administering to a subject in need of such treatment an effective amount of a pharmaceutical composition comprising a apoptotically active protein having an amino acid sequence (i) of SEQ ID NO: 1 or (ii) with at least 60% homology to SEQ ID NO: 1.
  - 7. (Withdrawn for rejoining) The method according to claim & wherein the homologous amino acid sequence (ii) is selected from the group consisting of SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8.
  - 8. (Withdrawn for rejoining) The method according to claim 7, wherein the homologous amino acid sequence is SEQ ID NO: 2.
  - 9. (Cancelled) A polynucleotide that encodes for a protein that modulates apoptosis, the polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 6, SEO ID NO: 7 and SEO ID NO: 9.



- 10. (Cancelled) An apoptotically active polynucleotide that hybridizes with at least one nucleotide sequence according to claim 9 under high stringency conditions.
- 11. (Cancelled) An apoptotically active polynucleotide that has at least 90% homology to the nucleotide sequences of claim 9.
- 12. (Cancelled) A method for detecting a polynucleotide encoding a protein having at least one amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8 in a biological test sample containing nucleic acids, the method comprising the steps of:
  - (a) mixing at least a fragment of a complement of the polynucleotide sequence encoding at least a fragment of a protein having at least one amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8 with the biological test sample containing nucleic acids, to form a resulting mixture;
  - (b) subjecting the mixture to conditions such that hybridization will occur between the biological test sample and the complement of the polynucleotide sequence encoding at least a fragment of a protein having at least one amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8; and
  - (c) detecting hybridization complexes in the mixture subjected to hybridization conditions, wherein the presence of a hybridization complex correlates with the presence of a polynucleotide encoding a protein having at least one amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8 in the biological test sample.



13. (Withdrawn for rejoining) A method for screening a potential cellular apoptosis inhibiting compound for determining it utility as a therapeutic agent for treatment of diseases associated with increased programmed cell death, the method comprising:

- (a) contacting a cell which expresses a protein including at least one amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8 with the test compound; and
- (b) determining the level of apoptosis activity of the cell, wherein a decrease in activity identifies a compound that inhibits apoptotic activity.
- 14. (Cancelled) An expression vector containing at least a fragment of a polynucleotide sequence, wherein the polynucleotide has a nucleotide sequence that encodes a polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8, or its compliment.
- 15. (Cancelled) A transformed host cell containing an expression vector as in claim 14.
- 16. (Cancelled) The transformed host cell according to claim 15, wherein the host cell has been cultured for expression of the polypeptide in recoverable form.
- 17. (Cancelled) A purified antibody which binds to a polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8
- 18. (Withdrawn for rejoining) A method for preventing or treating a disorder associated with decreased apoptosis comprising:
  - (a) administering to a subject in need of such treatment a pharmaceutical composition comprising a polypeptide including at least one amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8.
- 19. (Cancelled) A vaccine comprising a polynucleotide sequence that encodes a polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 8.
- 20. (New) A polypeptide that modulates programmed cell death, the polypeptide comprising SEQ ID NO. 2 and variants thereof characterized by (1) at least 60 % homology to SEQ. ID NO. 2, (2) a

conserved carboxy end region having an amino acid sequence of YGVPHSTLEYKVKER, and (3) having apoptotic activity.

- 21. (New and withdrawn for rejoining)) A method for modifying the apoptotic activity of a cell, the method comprising contacting the cell with a polypeptide comprising SEQ ID NO. 2 and variants thereof characterized by having (1) at least 60 % homology to SEQ. ID NO. 2, and (2) a conserved carboxy end region having an amino acid sequence of YGVPHSTLEYKVKER and in a sufficient amount to modulates apoptotic activity.
- 22. (New) An apoptotically active polypeptide having an amino acid sequence of SEQ ID NO. 2 and variants having at least 90% homology to SEQ ID NO. 2 and having apoptotic activity.
- 23. (New and withdrawn for rejoining) A method of generating an antibody, comprising:
- (a) introducing a polypertide of claim 20 into an immunocompetent animal in an amount sufficient to induce an immune response; and
- (b) recovering from serum of the immunocompetent animal antibodies generated in response to the polypeptide of step (a) and that bind therewith.
- 24. (New and withdrawn for rejoining) A method for screening a potential cellular apoptosis inhibiting compound for determining it utility as a therapeutic agent for treatment of diseases associated with increased programmed cell death, the method comprising:
  - (a) contacting a cell which expresses a polypeptide of claim 20 with the test compound; and
  - (b) determining the level of apoptosis activity of the cell, wherein a decrease in activity identifies a compound that inhibits apoptotic activity.
- 25. (New) An apoptotically active polynucleotide comprising an amino acid sequence of SEQ ID NO. 2 and having apoptotic activity.